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| U.S. APPLICATION NUMBER NO. | FIRST NAMED APPLICANT | ATTY. DOCKET NO. |
|-----------------------------|-----------------------|-------------------------|
| 10/527,769 | Rainer Klocke | 14851-003US1 ING10692US |

INTERNATIONAL APPLICATION NO.

PCT/EP03/10118

| I.A. FILING DATE | PRIORITY DATE |
|------------------|---------------|
| 09/11/2003 | 09/13/2002 |

26161
 FISH & RICHARDSON PC
 P.O. BOX 1022
 MINNEAPOLIS, MN 55440-1022

CONFIRMATION NO. 5191

371 FORMALITIES LETTER



OC000000018387421

Date Mailed: 03/28/2006

NOTIFICATION OF DEFECTIVE RESPONSE

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495)

- Indication of Small Entity Status
- Priority Document
- Copy of the International Application filed on 03/11/2005
- Copy of the International Search Report filed on 03/11/2005
- Copy of IPE Report filed on 03/11/2005
- Preliminary Amendments filed on 03/11/2005
- Biochemical Sequence Diskette filed on 12/05/2005
- Oath or Declaration filed on 12/05/2005
- Biochemical Sequence Listing filed on 12/05/2005
- U.S. Basic National Fees filed on 03/11/2005
- Priority Documents filed on 03/11/2005
- Power of Attorney filed on 12/05/2005
- Specification filed on 12/05/2005
- Claims filed on 12/05/2005
- Abstracts filed on 12/05/2005
- Drawings filed on 12/05/2005

Applicant's response filed 12/05/2005 is hereby acknowledged. The following requirements set forth in the NOTIFICATION of MISSING REQUIREMENTS mailed 08/03/2005 have not been completed.

- The paper or compact disc copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CFR 1.821(e). Applicant must provide a substitute paper or compact disc copy of the "Sequence Listing", **as well as an amendment specifically directing its entry into the application** OR a substitute computer readable form (CRF) copy of the "Sequence Listing". These two items must be the same. Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8,

2000) and 1238 OG 145 (September 19, 2000).

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

Applicant is required to complete the response within a time limit of ONE MONTH from the date of this Notification or within the time remaining in the response set forth in the Notification of Missing Requirements, whichever is the longer. No extension of this time limit may be granted under 37 CFR 1.136, but the period for response set in the Notification of Missing Requirements may be extended under 37 CFR 1.136(a).

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

*A copy of this notice **MUST** be returned with the response.*

PAULETTE R KIDWELL

Telephone: (703) 308-9140 EXT 216

PART 1 - ATTORNEY/APPLICANT COPY

| U.S. APPLICATION NUMBER NO. | INTERNATIONAL APPLICATION NO. | ATTY. DOCKET NO. |
|-----------------------------|-------------------------------|-------------------------|
| 10/527,769 | PCT/EP03/10118 | 14851-003US1 ING10692US |

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING **ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/527,769
Source: _____
Date Processed by STIC: 3/6/06 ^{P45}

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER** **VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06



PCT

RAW SEQUENCE LISTING

DATE: 03/06/2006

PATENT APPLICATION: US/10/527,769

TIME: 15:06:21

Input Set : F:\14851-003US1.txt

Output Set: N:\CRF4\03062006\J527769.raw

3 <110> APPLICANT: Klocke, Rainer
 4 Marquardt, Andreas
 5 Peraus, Gisela
 6 Stumm, Gabriele
 7 Wabnitz, Philipp
 10 <120> TITLE OF INVENTION: CYTOPLASMIC DYNEIN HEAVY CHAIN1 GENES, EXPRESSION PRODUCTS,
 11 NON-HUMAN ANIMAL MODEL: USES IN HUMAN NEUROLOGICAL DISEASES
 13 <130> FILE REFERENCE: 14851-003US1
 15 <140> CURRENT APPLICATION NUMBER: US 10/527,769
 16 <141> CURRENT FILING DATE: 2005-03-11
 18 <150> PRIOR APPLICATION NUMBER: PCT/EP 03/10118
 19 <151> PRIOR FILING DATE: 2003-09-11
 21 <150> PRIOR APPLICATION NUMBER: US 60/410,776
 22 <151> PRIOR FILING DATE: 2002-09-13
 24 <150> PRIOR APPLICATION NUMBER: US 60/426,609
 25 <151> PRIOR FILING DATE: 2002-11-15
 27 <150> PRIOR APPLICATION NUMBER: US 60/444,920
 28 <151> PRIOR FILING DATE: 2003-02-04
 30 <160> NUMBER OF SEQ ID NOS: 159
 32 <170> SOFTWARE: PatentIn version 3.2

Does Not Comply
Corrected Diskette Needed

pg 1-4

ERRORED SEQUENCES

7338 <210> SEQ ID NO: 28
 7339 <211> LENGTH: 9739821
 7340 <212> TYPE: DNA
 7341 <213> ORGANISM: Mus musculus
 7343 <300> PUBLICATION INFORMATION:
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 7345 <309> DATABASE ENTRY DATE: 2002-11-19
 7346 <313> RELEVANT RESIDUES: (1)..(9739821)
 7348 <400> SEQUENCE: 28
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 7354 <212> TYPE: DNA
 7355 <213> ORGANISM: Homo sapiens
 7357 <300> PUBLICATION INFORMATION:
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 7362 <400> SEQUENCE: 29

P.2

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/527,769

DATE: 03/06/2006
TIME: 15:06:22

Input Set : F:\14851-003US1.txt
Output Set: N:\CRF4\03062006\J527769.raw

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7369 <213> ORGANISM: Mus musculus
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7373 <309> DATABASE ENTRY DATE: 2002-11-19
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7376 <400> SEQUENCE: 30

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7382 <212> TYPE: DNA
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7399 <300> PUBLICATION INFORMATION:
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7427 <300> PUBLICATION INFORMATION:
7428 <308> DATABASE ACCESSION NO: Genbank/AC115796.2
7429 <309> DATABASE ENTRY DATE: 2002-06-26
7430 <313> RELEVANT RESIDUES: (1)..(209235)

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RAW SEQUENCE LISTING

DATE: 03/06/2006

PATENT APPLICATION: US/10/527,769

TIME: 15:06:22

Input Set : F:\14851-003US1.txt

Output Set: N:\CRF4\03062006\J527769.raw

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7452 <212> TYPE: DNA
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7457 <309> DATABASE ENTRY DATE: 2002-08-26
7458 <313> RELEVANT RESIDUES: (1)..(182279)
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7467 <213> ORGANISM: Homo sapiens
7469 <300> PUBLICATION INFORMATION: Genbank
7470 <308> DATABASE ACCESSION NO: Genbank/NT_010478.1
7471 <309> DATABASE ENTRY DATE: 2003-01-03
7472 <313> RELEVANT RESIDUES: (1)..(3407408)
7474 <400> SEQUENCE: 37
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7478 <210> SEQ ID NO: 38
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7480 <212> TYPE: DNA
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7484 <308> DATABASE ACCESSION NO: Genbank/NW_000236
7485 <309> DATABASE ENTRY DATE: 2002-11-17
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7494 <212> TYPE: DNA
7495 <213> ORGANISM: Homo sapiens
7497 <300> PUBLICATION INFORMATION:
7498 <308> DATABASE ACCESSION NO: Genbank/NT_009775
7499 <309> DATABASE ENTRY DATE: 2003-01-05

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RAW SEQUENCE LISTING

DATE: 03/06/2006

PATENT APPLICATION: US/10/527,769

TIME: 15:06:22

Input Set : F:\14851-003US1.txt

Output Set: N:\CRF4\03062006\J527769.raw

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7516 <400> SEQUENCE: 40
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7522 <212> TYPE: DNA
7523 <213> ORGANISM: Homo sapiens
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7541 <309> DATABASE ENTRY DATE: 2003-01-05
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7550 <212> TYPE: DNA
7551 <213> ORGANISM: Mus musculus
7553 <300> PUBLICATION INFORMATION:
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7555 <309> DATABASE ENTRY DATE: 2002-11-15
7556 <313> RELEVANT RESIDUES: (1)..(157434)
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7564 <212> TYPE: DNA
7565 <213> ORGANISM: Homo sapiens
7567 <300> PUBLICATION INFORMATION:
7568 <308> DATABASE ACCESSION NO: Genbank/NT_022184

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/527,769

DATE: 03/06/2006

TIME: 15:06:22

Input Set : F:\14851-003US1.txt

Output Set: N:\CRF4\03062006\J527769.raw

7569 <309> DATABASE ENTRY DATE: 2003-01-03
7570 <313> RELEVANT RESIDUES: (1)..(13913408)
7572 <400> SEQUENCE: 44
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7579 <213> ORGANISM: Homo sapiens
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7582 <308> DATABASE ACCESSION NO: Genbank/NT_009509
7583 <309> DATABASE ENTRY DATE: 2003-01-03
7584 <313> RELEVANT RESIDUES: (1)..(2546553)
7586 <400> SEQUENCE: 45
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7598 <313> RELEVANT RESIDUES: (1)..(78661)
7600 <400> SEQUENCE: 46
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7610 <309> DATABASE ENTRY DATE: 2003-01-03
7611 <313> RELEVANT RESIDUES: (1)..(13129500)
7613 <400> SEQUENCE: 47
E--> 7614 13129500

*This error appears in subsequent
sequences, too.*

VERIFICATION SUMMARY

DATE: 03/06/2006

PATENT APPLICATION: US/10/527,769

TIME: 15:06:23

Input Set : F:\14851-003US1.txt

Output Set: N:\CRF4\03062006\J527769.raw

L:530 M:283 W: Missing Blank Line separator, <300> field identifier
L:534 M:283 W: Missing Blank Line separator, <400> field identifier
L:7349 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7349 M:301 E: (44) No Sequence Data was Shown, SEQ ID:28
L:7349 M:252 E: No. of Seq. differs, <211> LENGTH:Input:9739821 Found:0 SEQ:28
L:7363 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7363 M:301 E: (44) No Sequence Data was Shown, SEQ ID:29
L:7363 M:252 E: No. of Seq. differs, <211> LENGTH:Input:194871 Found:0 SEQ:29
L:7377 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7377 M:301 E: (44) No Sequence Data was Shown, SEQ ID:30
L:7377 M:252 E: No. of Seq. differs, <211> LENGTH:Input:27755676 Found:0 SEQ:30
L:7391 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7391 M:301 E: (44) No Sequence Data was Shown, SEQ ID:31
L:7391 M:252 E: No. of Seq. differs, <211> LENGTH:Input:325120 Found:0 SEQ:31
L:7405 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7405 M:301 E: (44) No Sequence Data was Shown, SEQ ID:32
L:7405 M:252 E: No. of Seq. differs, <211> LENGTH:Input:41610409 Found:0 SEQ:32
L:7419 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7419 M:301 E: (44) No Sequence Data was Shown, SEQ ID:33
L:7419 M:252 E: No. of Seq. differs, <211> LENGTH:Input:9413241 Found:0 SEQ:33
L:7433 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7433 M:301 E: (44) No Sequence Data was Shown, SEQ ID:34
L:7433 M:252 E: No. of Seq. differs, <211> LENGTH:Input:209235 Found:0 SEQ:34
L:7447 M:254 E: No. of Bases conflict, this line has no nucleotides.
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L:7447 M:252 E: No. of Seq. differs, <211> LENGTH:Input:2370557 Found:0 SEQ:35
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L:7461 M:301 E: (44) No Sequence Data was Shown, SEQ ID:36
L:7461 M:252 E: No. of Seq. differs, <211> LENGTH:Input:182279 Found:0 SEQ:36
L:7475 M:254 E: No. of Bases conflict, this line has no nucleotides.
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L:7475 M:252 E: No. of Seq. differs, <211> LENGTH:Input:3407408 Found:0 SEQ:37
L:7489 M:254 E: No. of Bases conflict, this line has no nucleotides.
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L:7489 M:252 E: No. of Seq. differs, <211> LENGTH:Input:11307089 Found:0 SEQ:38
L:7503 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7503 M:301 E: (44) No Sequence Data was Shown, SEQ ID:39
L:7503 M:252 E: No. of Seq. differs, <211> LENGTH:Input:9537557 Found:0 SEQ:39
L:7517 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7517 M:301 E: (44) No Sequence Data was Shown, SEQ ID:40
L:7517 M:252 E: No. of Seq. differs, <211> LENGTH:Input:7349078 Found:0 SEQ:40
L:7531 M:254 E: No. of Bases conflict, this line has no nucleotides.
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/527,769

DATE: 03/06/2006

TIME: 15:06:23

Input Set : F:\14851-003US1.txt

Output Set: N:\CRF4\03062006\J527769.raw

L:7559 M:301 E: (44) No Sequence Data was Shown, SEQ ID:43
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L:7573 M:301 E: (44) No Sequence Data was Shown, SEQ ID:44
L:7573 M:252 E: No. of Seq. differs, <211> LENGTH:Input:13913408 Found:0 SEQ:44
L:7587 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7587 M:301 E: (44) No Sequence Data was Shown, SEQ ID:45
L:7587 M:252 E: No. of Seq. differs, <211> LENGTH:Input:2546553 Found:0 SEQ:45
L:7601 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7601 M:301 E: (44) No Sequence Data was Shown, SEQ ID:46
L:7601 M:252 E: No. of Seq. differs, <211> LENGTH:Input:78661 Found:0 SEQ:46
L:7614 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7614 M:301 E: (44) No Sequence Data was Shown, SEQ ID:47
L:7614 M:252 E: No. of Seq. differs, <211> LENGTH:Input:13129500 Found:0 SEQ:47
L:7628 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7628 M:301 E: (44) No Sequence Data was Shown, SEQ ID:48
L:7628 M:252 E: No. of Seq. differs, <211> LENGTH:Input:73751450 Found:0 SEQ:48
L:7642 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7642 M:301 E: (44) No Sequence Data was Shown, SEQ ID:49
L:7642 M:252 E: No. of Seq. differs, <211> LENGTH:Input:5536589 Found:0 SEQ:49
L:7656 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7656 M:301 E: (44) No Sequence Data was Shown, SEQ ID:50
L:7656 M:252 E: No. of Seq. differs, <211> LENGTH:Input:182479 Found:0 SEQ:50
L:7670 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7670 M:301 E: (44) No Sequence Data was Shown, SEQ ID:51
L:7670 M:252 E: No. of Seq. differs, <211> LENGTH:Input:5103538 Found:0 SEQ:51
L:7684 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7684 M:301 E: (44) No Sequence Data was Shown, SEQ ID:52
L:7684 M:252 E: No. of Seq. differs, <211> LENGTH:Input:4029916 Found:0 SEQ:52
L:7698 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7698 M:301 E: (44) No Sequence Data was Shown, SEQ ID:53
L:7698 M:252 E: No. of Seq. differs, <211> LENGTH:Input:21740025 Found:0 SEQ:53
L:7712 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7712 M:301 E: (44) No Sequence Data was Shown, SEQ ID:54
L:7712 M:252 E: No. of Seq. differs, <211> LENGTH:Input:167480 Found:0 SEQ:54
L:7726 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7726 M:301 E: (44) No Sequence Data was Shown, SEQ ID:55
L:7726 M:252 E: No. of Seq. differs, <211> LENGTH:Input:32543249 Found:0 SEQ:55
L:7739 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7739 M:301 E: (44) No Sequence Data was Shown, SEQ ID:56
L:7739 M:252 E: No. of Seq. differs, <211> LENGTH:Input:132150 Found:0 SEQ:56
L:7752 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7752 M:301 E: (44) No Sequence Data was Shown, SEQ ID:57
L:7752 M:252 E: No. of Seq. differs, <211> LENGTH:Input:217092 Found:0 SEQ:57
L:7765 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7765 M:301 E: (44) No Sequence Data was Shown, SEQ ID:58
L:7765 M:252 E: No. of Seq. differs, <211> LENGTH:Input:1105830 Found:0 SEQ:58
L:7778 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7778 M:301 E: (44) No Sequence Data was Shown, SEQ ID:59

VERIFICATION SUMMARY

DATE: 03/06/2006

PATENT APPLICATION: US/10/527,769

TIME: 15:06:23

Input Set : F:\14851-003US1.txt

Output Set: N:\CRF4\03062006\J527769.raw

L:7778 M:252 E: No. of Seq. differs, <211> LENGTH:Input:11307089 Found:0 SEQ:59
L:7791 M:254 E: No. of Bases conflict, this line has no nucleotides.
L:7791 M:301 E: (44) No Sequence Data was Shown, SEQ ID:60
L:7791 M:252 E: No. of Seq. differs, <211> LENGTH:Input:432747 Found:0 SEQ:60
L:8969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:464
M:341 Repeated in SeqNo=67